

15-057-20561

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company Inc**

100 S. Main suite 505
Wichita, KS 67202-3738

ORIGINAL

ATTN: Wes Hansen

35-27s-24w

Barngrover "A" #1

Start Date: 2001.04.20 @ 20:21:57

2002 End Date: 2001.04.21 @ 03:11:12

Job Ticket #: 15709

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Company Inc

 100 S.Main suite 505
 Wichita, KS 67202-3738

ATTN: Wes Hansen

Barngrover"A" #1
35-27s-24w

Job Ticket: 15709

DST#: 1

Test Start: 2001.04.20 @ 20:21:57

GENERAL INFORMATION:

 Formation: **Winfield**

 Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 22:13:27

Time Test Ended: 03:11:12

 Test Type: **Conventional Bottom Hole**

 Tester: **Darren L.Amerine**

 Unit No: **19**

 Interval: **2666.00 ft (KB) To 2690.00 ft (KB) (TVD)**

 Total Depth: **2690.00 ft (KB) (TVD)**

 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

 Reference Elevations: **2520.00 ft (KB)**
2515.00 ft (CF)

 KB to GR/CF: **5.00 ft**
Serial #: 3302
Inside

 Press@RunDepth: **69.14 psig @ 2667.00 ft (KB)**

 Start Date: **2001.04.20**

End Date:

2001.04.21

 Start Time: **20:21:59**

End Time:

03:11:12

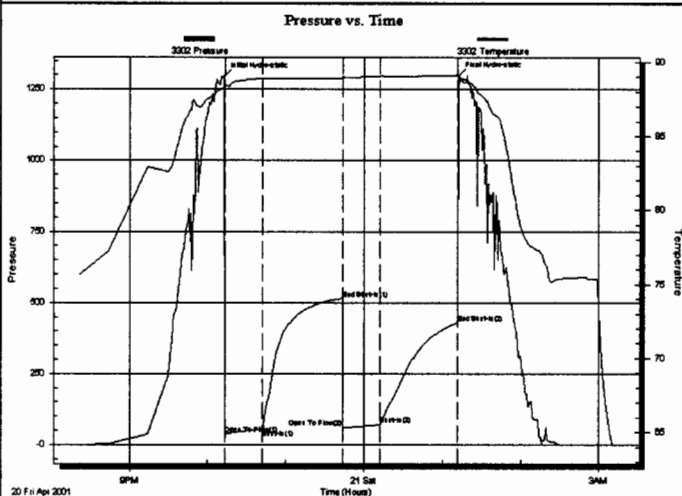
 Capacity: **7000.00 psig**

 Last Calib.: **2002.04.19**

 Time On Btm: **2001.04.20 @ 22:12:57**

 Time Off Btm: **2001.04.21 @ 01:12:12**

TEST COMMENT: IF:Weak blow built to 6-1/2" in H2O bucket.
 IS:Bled down for 2 min.no blow back.
 FF:Very weak surface blow built to 1/2" in H2O bucket.
 FSI:Bled down for 2 min.no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1293.56	88.27	Initial Hydro-static
1	36.57	88.47	Open To Flow (1)
29	55.46	88.89	Shut-In (1)
91	513.64	88.89	End Shut-In (1)
91	59.16	89.00	Open To Flow (2)
120	69.14	89.03	Shut-In (2)
179	429.07	89.07	End Shut-In (2)
180	1298.77	89.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	01 - Gas	0.59
90.00	353 - Mud cut Salt Water	0.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company Inc

Barngrover"A"#1

100 S.Main suite 505
Wichita, KS 67202-3738

35-27s-24w

Job Ticket: 15709

DST#: 1

ATTN: Wes Hansen

Test Start: 2001.04.20 @ 20:21:57

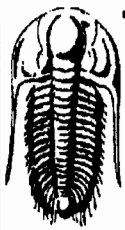
Tool Information

Drill Pipe:	Length: 2357.11 ft	Diameter: 3.80 inches	Volume: 33.06 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 297.89 ft	Diameter: 2.25 inches	Volume: 1.46 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	34.52 bbl	Tool Chased 6.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	2666.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2644.00	
S.I. Tool	5.00			2649.00	
HMV	5.00			2654.00	
Safety Joint	2.00			2656.00	
Packer	5.00			2661.00	23.00 Bottom Of Top Packer
Packer	5.00			2666.00	
Stubb	1.00			2667.00	
Recorder	0.00	3302	Inside	2667.00	
Anchor	20.00			2687.00	
Recorder	0.00	10991	Outside	2687.00	
Bullnose	3.00			2690.00	24.00 Bottom Packers & Anchor

Total Tool Length: 47.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company Inc

Barngrover"A" #1

100 S.Main suite 505
Wichita, KS 67202-3738

35-27s-24w

Job Ticket: 15709

DST#: 1

ATTN: Wes Hansen

Test Start: 2001.04.20 @ 20:21:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 140000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	01 - Gas	0.590
90.00	353 - Mud cut Salt Water	0.443

Total Length: 210.00 ft

Total Volume: 1.033 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments: RW .07 @ 60F

DST Test Number: 1

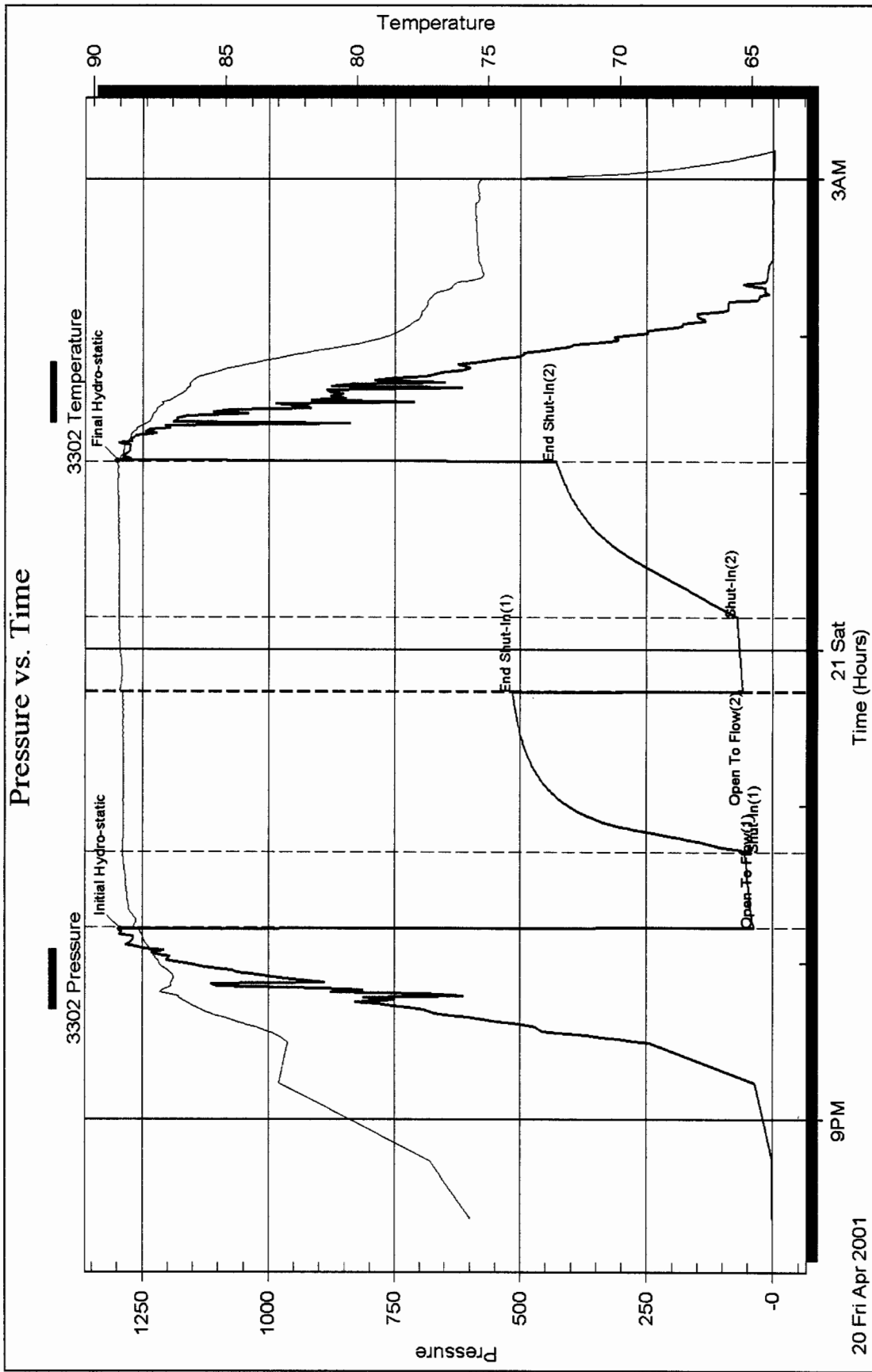
35-27s-24w

Pickrell Drilling Company Inc

Inside

Serial #: 3302

Pressure vs. Time



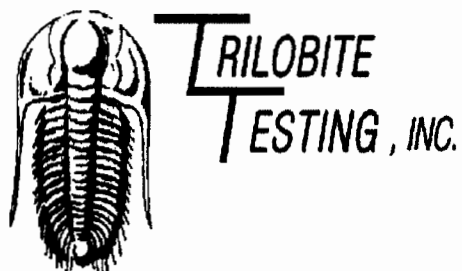
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Trilobite Testing, Inc

Ref. No: 15709

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DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company Inc**

100 S.Main suite 505
Wichita, KS 67202-3738

ATTN: Wes Hansen

35-27s-24w

Barngrover"A"#1

Start Date: 2001.04.24 @ 10:41:25

End Date: 2001.04.24 @ 19:59:53

Job Ticket #: 15710 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drilling Company Inc

100 S.Main suite 505
Wichita, KS 67202-3738

ATTN: Wes Hansen

Barngrover"A" #1

35-27s-24w

Job Ticket: 15710

DST#: 2

Test Start: 2001.04.24 @ 10:41:25

GENERAL INFORMATION:

Formation: **Conglom**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 13:24:23

Time Test Ended: 19:59:53

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **5030.00 ft (KB) To 5068.00 ft (KB) (TVD)**

Total Depth: **5068.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2520.00 ft (KB)**

2515.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3302 **Inside**

Press@RunDepth: **35.99 psig @ 5036.00 ft (KB)**

Start Date: **2001.04.24**

End Date:

2001.04.24

Start Time: **10:41:25**

End Time:

19:59:53

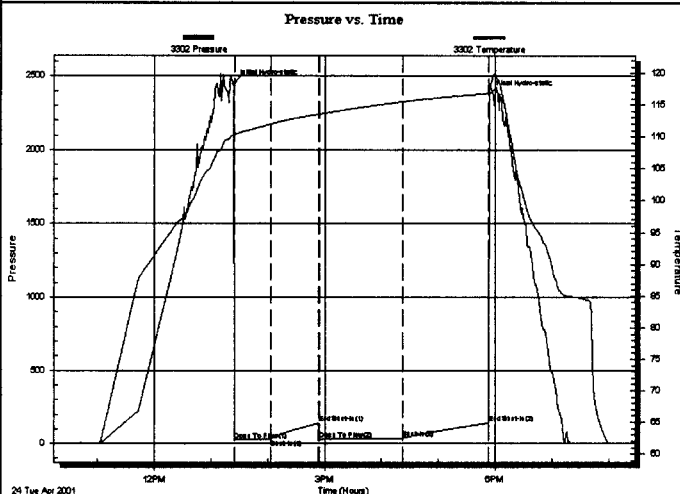
Capacity: **7000.00 psig**

Last Calib.: **2002.04.24**

Time On Btm: **2001.04.24 @ 13:23:23**

Time Off Btm: **2001.04.24 @ 17:53:38**

TEST COMMENT: IF: Fair blow b.o.b in 36 min.
IS: Bled down n for 2 min. no blow back.
FF: Weak blow built to 7" in H2O bucket.
FS: Bled down n for 5 min.



PRESSURE SUMMARY

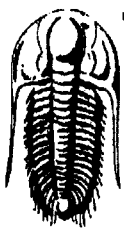
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2446.59	110.27	Initial Hydro-static
1	24.42	110.43	Open To Flow (1)
40	30.43	111.98	Shut-In (1)
91	138.43	113.53	End Shut-In (1)
91	26.82	113.57	Open To Flow (2)
180	35.99	115.51	Shut-In (2)
270	138.53	116.81	End Shut-In (2)
271	2378.08	116.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3900.00	01 - Gas	53.08
20.00	102 - Oil cut Mud	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company Inc

Barngrover"A"#1

100 S.Main suite 505
Wichita, KS 67202-3738

35-27s-24w

Job Ticket: 15710

DST#: 2

ATTN: Wes Hansen

Test Start: 2001.04.24 @ 10:41:25

Tool Information

Drill Pipe:	Length: 4835.89 ft	Diameter: 3.80 inches	Volume: 67.83 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 179.11 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 68.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	5030.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5003.00	
S.I. Tool	5.00			5008.00	
HMV	5.00			5013.00	
Jars	5.00			5018.00	
Safety Joint	2.00			5020.00	
Recorder	5.00			5025.00	
Packer	5.00			5030.00	28.00 Bottom Of Top Packer
Stubb	1.00			5031.00	
Anchor	5.00			5036.00	
Recorder	0.00	3302	Inside	5036.00	
Blank Spacing	30.00			5066.00	
Recorder	0.00	10991	Outside	5066.00	
Bullnose	2.00			5068.00	38.00 Anchor Tool

Total Tool Length: 66.00



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FLUID SUMMARY

Pickrell Drilling Company Inc

Barngrover"A" #1

100 S. Main suite 505
Wichita, KS 67202-3738

35-27s-24w

Job Ticket: 15710

DST#: 2

ATTN: Wes Hansen

Test Start: 2001.04.24 @ 10:41:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: 1.50 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3900.00	01 - Gas	53.075
20.00	102 - Oil cut Mud	0.281

Total Length: 3920.00 ft

Total Volume: 53.356 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3302

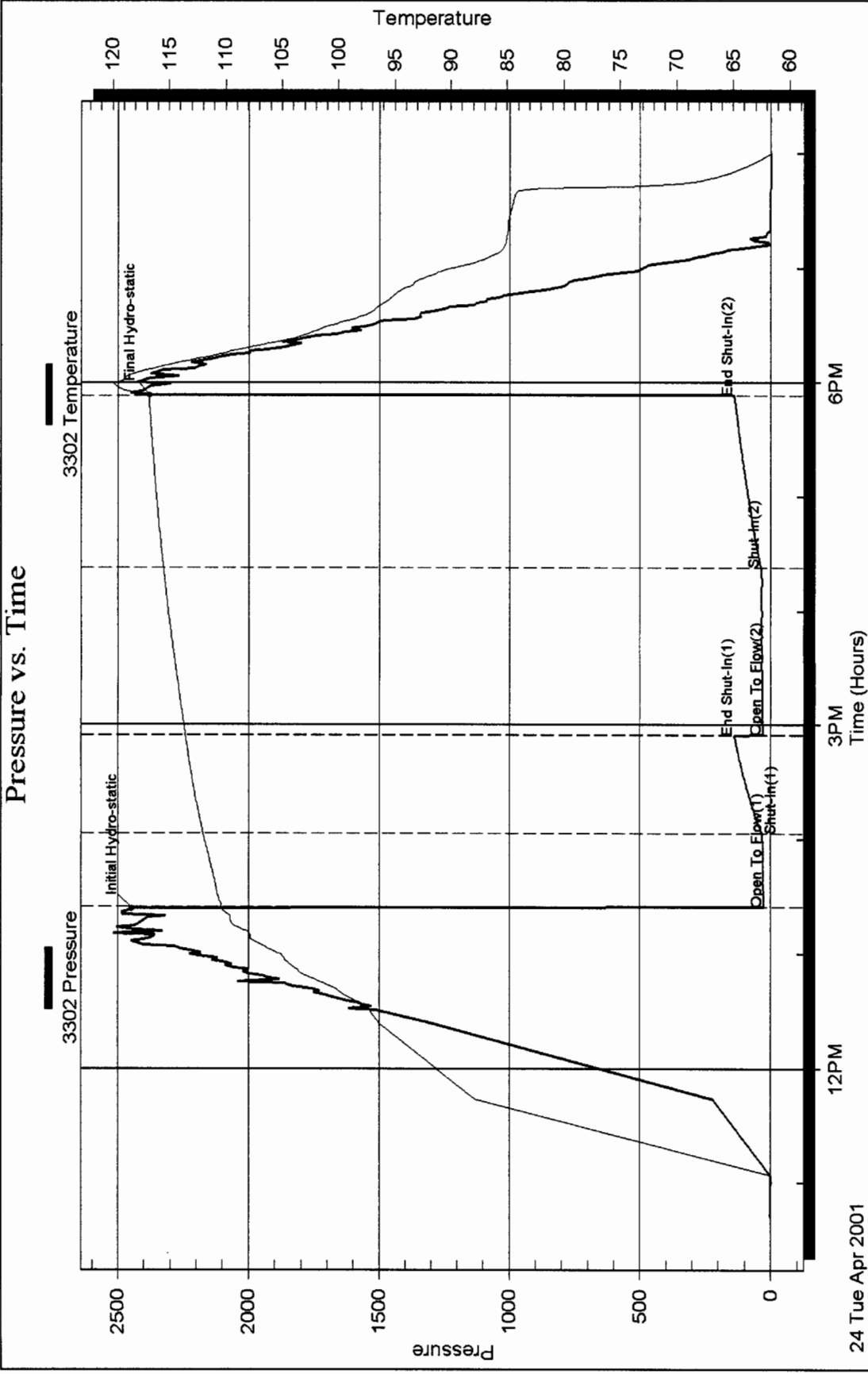
Inside

Pickrell Drilling Company Inc

35-27s-24w

DST Test Number: 2

Pressure vs. Time

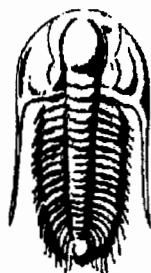


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Trilobite Testing, Inc

Ref. No: 15710

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DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company Inc**

100 S.Main suite 505
Wichita, KS 67202-3738

ATTN: Wes Hansen

35-27s-24w

Barngrover"A"#1

Start Date: 2001.04.26 @ 15:20:37

End Date: 2001.04.27 @ 01:32:07

Job Ticket #: 15711 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drilling Company Inc

100 S.Main suite 505
Wichita, KS 67202-3738

ATTN: Wes Hansen

Barngrover"A" #1

35-27s-24w

Job Ticket: 15711

DST#: 3

Test Start: 2001.04.26 @ 15:20:37

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 17:18:07

Time Test Ended: 01:32:07

Test Type: **Conventional Straddle**

Tester: **Darren L .Amerine**

Unit No: **19**

Interval: **5070.00 ft (KB) To 5085.00 ft (KB) (TVD)**

Total Depth: **5160.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2520.00 ft (KB)**

2515.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3302 **Inside**

Press@RunDepth: **60.23 psig @ 5071.00 ft (KB)**

Start Date: **2001.04.26**

End Date:

2001.04.27

Start Time: **15:20:39**

End Time:

01:32:07

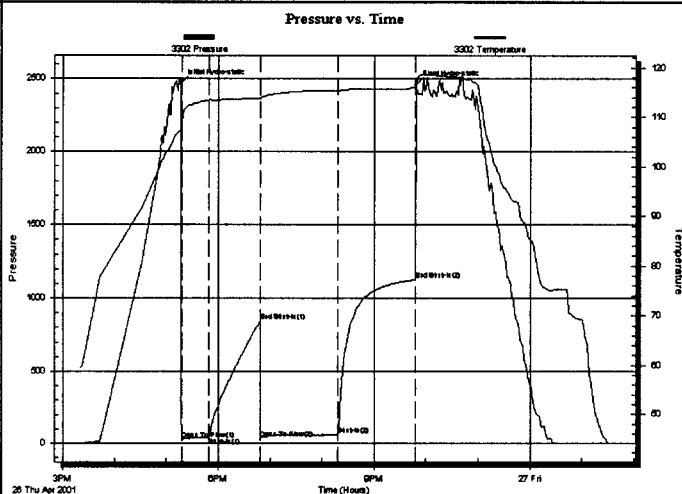
Capacity: **7000.00 psig**

Last Calib.: **2002.04.26**

Time On Btm: **2001.04.26 @ 17:17:07**

Time Off Btm: **2001.04.26 @ 21:48:22**

TEST COMMENT: IF:Strong blow b.o.b in 15 sec.
IS:Bled down for 10 min.no blow back.
FF:Strong blow b.o.b 10 sec.GTS in 20 min.Gauge gas.
FS:Bled down for 10 min.no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2466.84	107.50	Initial Hydro-static
1	27.70	109.32	Open To Flow (1)
33	42.22	113.44	Shut-In (1)
92	841.21	113.82	End Shut-In (1)
92	31.65	113.91	Open To Flow (2)
182	60.23	115.38	Shut-In (2)
271	1126.00	115.97	End Shut-In (2)
272	2462.47	116.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4952.00	01 - Gas	67.29
120.00	402 - Mud and Gas cut Salt Water	1.68

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company Inc

100 S.Main suite 505
Wichita, KS 67202-3738

ATTN: Wes Hansen

Barngrover"A"#1

35-27s-24w

Job Ticket: 15711

DST#: 3

Test Start: 2001.04.26 @ 15:20:37

Tool Information

Drill Pipe:	Length: 4834.40 ft	Diameter: 3.80 inches	Volume: 67.81 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 238.60 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose:	200000.0 lb
		Total Volume:	68.98 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	5070.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	5085.00 ft				
Interval between Packers:	15.00 ft				
Tool Length:	118.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			5043.00	
S.I. Tool	5.00			5048.00	
HMV	5.00			5053.00	
Jars	5.00			5058.00	
Safety Joint	2.00			5060.00	
Packer	5.00			5065.00	28.00 Bottom Of Top Packer
Packer	5.00			5070.00	
Stubb	1.00			5071.00	
Recorder	0.00	3302	Inside	5071.00	
Anchor	11.00			5082.00	
Recorder	0.00	13769	Outside	5082.00	
T.C.	3.00			5085.00	15.00 Tool Interval
Packer	0.00			5085.00	
Stubb	1.00			5086.00	
Anchor	9.00			5095.00	
Blank Spacing	62.00			5157.00	
Recorder	0.00	10991	Below	5157.00	
Bullnose	3.00			5160.00	75.00 Bottom Packers & Anchor

Total Tool Length: 118.00



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FLUID SUMMARY

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Barngrover"A" #1

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Wichita, KS 67202-3738

35-27s-24w

Job Ticket: 15711

DST#: 3

ATTN: Wes Hansen

Test Start: 2001.04.26 @ 15:20:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

33000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4952.00	01 - Gas	67.290
120.00	402 - Mud and Gas cut Salt Water	1.683

Total Length: 5072.00 ft

Total Volume: 68.973 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

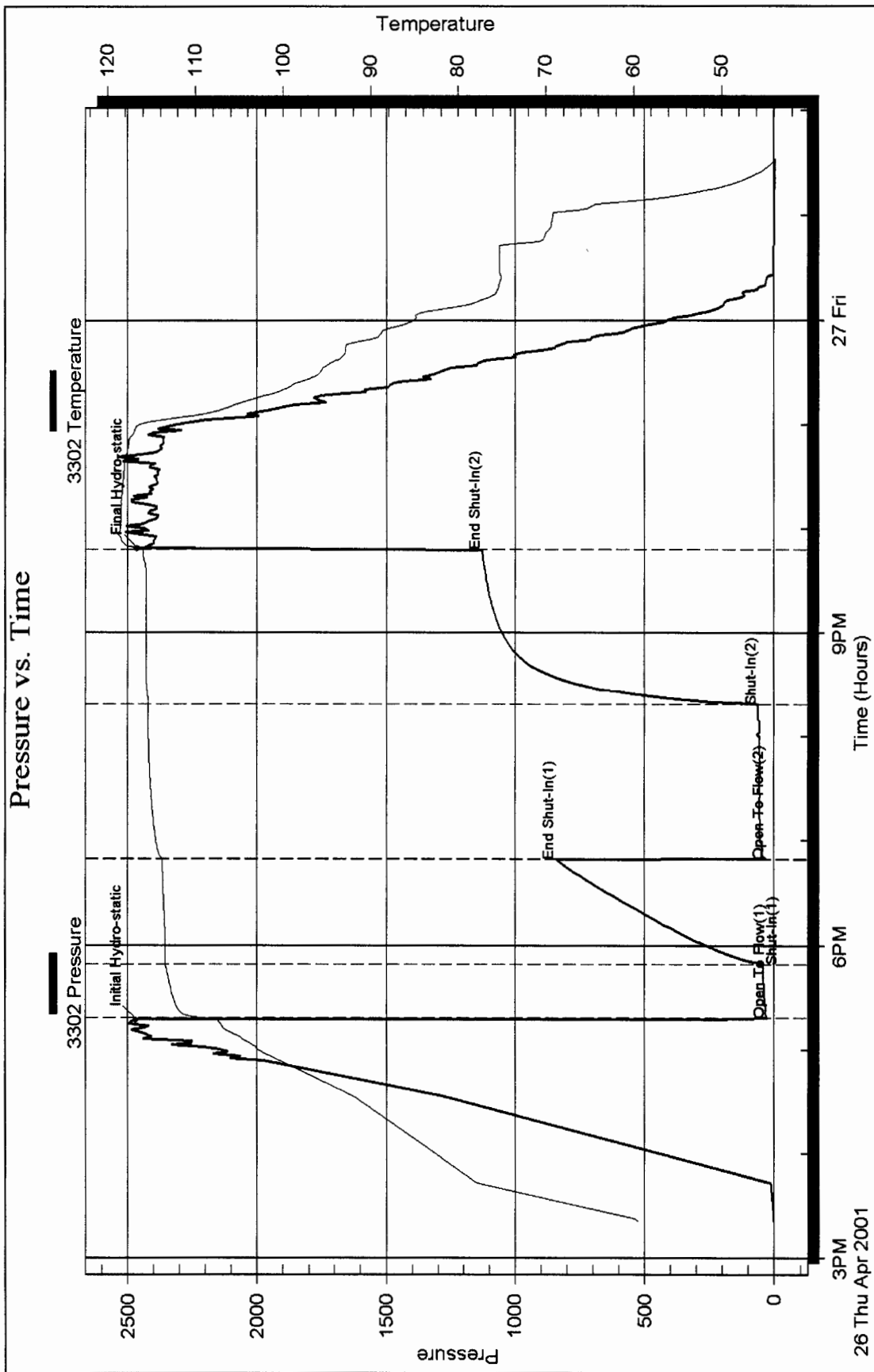
Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:

Pressure vs. Time



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